



DESCRIPTION

Duglas Marine oil are specific oils for aspirated or supercharged 4-stroke engines used in marine, fueled with medium and high sulfur fuels, such as diesel and MDO (Marine Diesel Oil). They are available with different TBN values to be used in function of sulfur content in the fuel.

PROPERTY

They are lubricants characterized by high detergent-dispersing properties to resist the formation of lacquers, cracks and deposits inside the engines.

The wear-resistant power of this range of products is such as to enable the lubrication of final gearboxes of the main engines.

The TBN values are remarkably high in order to guarantee even longer uses, to counteract the formation of acid compounds resulting from the use of particularly high sulfur fuels.

They are also characterized by: high demulsivity, to allow easy separation of water from the oil and the anti-foaming feature, to avoid air intake formation.

APPLICATION

The Marine 4012 is suitable for lubrication of 4-stroke diesel fueled engines used in marine, industry and traction using diesel fuel with less than 1% sulfur content.

The Marine 4030 is suitable for lubricating 4-stroke diesel fueled engines with a high sulfur content, requiring a high TBN lubricant.

The Marine 4040 is suitable for lubrication of 4-stroke diesel fueled engines with high sulfur content and other operating conditions such as the formation of acidic salts in the cylinders due to the low power of the maneuvering motors that use the high value of TBN lubricant.

TYPICAL FEATURES*

SAE Scale	4012	4030	4040
Density at 15°C, Kg/dm ³ ASTM D1298	0.89	0.900	0.910
Viscosity at 100°C, cSt ASTM D445	15.0	15.00	15.00
Viscosity Index ASTM D2270	100	100	100
Flammability V.A., °C ASTM D92	220	230	230
Pour Point, °C ASTM D97	-18	-15	-15
TBN, mgKOH/g ASTM D 2896	12	30	40

*The above mentioned values are indicative of production average values and are not an integral part of the specification.

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